



A.D. 1821 N° 4597.

S P E C I F I C A T I O N

OF

PETER DAVEY.

PREPARATION OF COAL FOR FUEL.

L O N D O N :

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Preparation of Coal for Fuel.

DAVEY'S SPECIFICATION.

TO ALL TO WHOM THESE PRESENTS SHALL COME, I, PETER DAVEY, of Old Swan Wharf, Chelsea, in the County of Middlesex, Coal Merchant, send greeting.

WHEREAS His most Excellent Majesty King George the Fourth did,
5 by His Letters Patent under the Great Seal of that part of the United Kingdom of Great Britain and Ireland called England, bearing date at Westminster the Eighteenth day of October, in the second year of His reign, give and grant unto me, the said Peter Davey, my eñors, adñors, and assigns, His especial licence, full power, sole privilege and authority, that I, the said
10 Peter Davey, my eñors, adñors, and assigns, during the term of years therein mentioned, should and lawfully might make, use, exercise, and vend, within England, Wales, and the Town of Berwick-upon-Tweed, my Invention of "AN IMPROVED PREPARATION OF COAL FOR FUEL;" in which said Letters Patent there is contained a proviso, that if I, the said Peter Davey, shall not particularly
15 describe and ascertain the nature of my said Invention, and in what manner the same is to be prepared, by an instrument in writing under my hand and seal, and cause the same to be inrolled in His Majesty's High Court of Chancery within four calendar months next and immediately after the date of the said Letters Patent, that then the said Letters Patent, and all liberties
20 and advantages whatsoever thereby granted, shall utterly cease, determine, and become void, as in and by the same, relation being thereunto had, will more fully and at large appear.

Davey's Improved Preparation of Coal for Fuel.

NOW KNOW YE, that in compliance with the said proviso, I, the said Peter Davey, do hereby describe and ascertain the nature of my said Invention, and a manner in which I have performed the same, by the following description thereof, reference being had to the Drawings and Figures annexed (that is to say):—

5

My Invention doth consist in an improved preparation of coal for fuel, which I call gaseous coke, and which is made of very small coals mixed with coal tar (either in a pure state, which is the best, or combined with naphtha and those other ingredients with which it is generally found impregnated), and then cemented together by the application of heat in the form of large lumps or cakes, for the purpose of fuel. 10

The following is a mode which I have adopted for the manufacture of the gaseous coke by distillation or otherwise, separate from coal tar, the aqueous parts, and most of the naphtha:—Take about three quarts of the tar thus prepared and mix it well with about a bushel of the smallest Newcastle or Sunderland coals, in the same manner you would mix brick, earth, or mortar; press this mixture into moulds or pans, such as are herein-after described, and tread or ram it down into them. This being done, place the pans, with the mixture in them, in an air furnace, previously heated to three hundred and fifty degrees of Farrenheite's thermometer. Let them remain in the furnace and exposed to the before-mentioned degrees of heat for four successive hours, then let them be removed and suffered to cool gradually, when the mixture in each will be found one solid compact mass, and may be turned out of the moulds or pans, being then formed into what I call gaseous coke, and fit for the purposes of fuel. 20 25

DESCRIPTION OF THE DRAWING.

Fig. 1 represents a perspective view of the iron pan or mould, herein-before described. A, B, are two bars of iron, laid across the pan for the purpose of placing a second pan over it. When in the furnace, if the furnace be high enough, two, three, or more may be piled on one another in this way. Fig. 2 is a longitudinal section of the pan or mould; Fig. 3 is a transverse section of the pan or mould. The pans or moulds are made of cast or wrought iron of about three-eighths of an inch thick, and are made larger at the top than at the bottom, in order more easily to disengage the coke from it when cold. 30

Now, such an improved preparation of coal for the purposes of fuel as is herein-before particularly described, and a manner of making, which is herein-before particularly set forth, and which said preparation I call gaseous coke, being entirely new and never before used for the purposes aforesaid in the 35

Davey's Improved Preparation of Coal for Fuel.

kingdoms, to the best of my knowledge and belief, I am desirous to maintain this my exclusive right and privilege to the same.

In witness whereof, I, the said Peter Davey, have hereunto set my hand and seal, this Sixteenth day of February, in the year of our Lord One
5 thousand eight hundred and twenty-two.

PETER (L.S.) DAVEY.

AND BE IT REMEMBERED, that on the Sixteenth day of February, in the year of our Lord 1822, the aforesaid Peter Davey came before our said Lord the King in His Chancery, and acknowledged the Specification aforesaid,
10 and all and every thing therein contained and specified, in form above written. And also the Specification aforesaid was stamped according to the tenor of the Statute made for that purpose.

STRATFORD.

Inrolled the Sixteenth day of February, in the year of our Lord One thousand eight hundred and twenty-two.

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